## SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substance Calcium fluoride

**Identification number** 232-188-7 (EC number)

**Registration number** - 1GJ

Synonyms Calcium fluoride (CaF2) \* Calcium fluoride \* Calcium difluoride (as F)

Materion Code 1GJ

**Issue date** 28-August-2013

Version number 07

**Revision date** 16-June-2021 **Supersedes date** 16-May-2019

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesNot available.Uses advised againstNone known.

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

**Hazard summary** Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Calcium fluoride

Hazard pictograms None.

Signal word None.

**Hazard statements** The substance does not meet the criteria for classification.

**Precautionary statements** 

**Prevention** 

P260 Do not breathe dust/fume/vapours/spray.

P280 Wear protective gloves/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

StorageNot available.DisposalNot available.

Supplemental label

information

For further information, please contact the Product Stewardship Department at  $\pm 1.800.862.4118$ .

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**2.3. Other hazards** None known.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

**General information** 

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Calcium fluoride	100	7789-75-5 232-188-7	-	-	#
Classif	ication: -				

Material name: Calcium fluoride

### List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

#: This substance has been assigned Community workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### **SECTION 4: First aid measures**

**General information** Not available.

#### 4.1. Description of first aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Skin contact Get medical attention if irritation develops and persists.

**Eye contact** Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Dusts may irritate the respiratory tract, skin and eyes.

Ingestion Get medical attention if symptoms occur.

4.2. Most important

acute and delayed

symptoms and effects, both

4.3. Indication of any immediate medical attention

and special treatment

needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

**General fire hazards** No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing None known.

media

5.2. Special hazards arising from the substance or

mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

**Special protective** equipment for firefighters

Wear suitable protective equipment.

Special firefighting

procedures

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated

above exposure limits. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away.

6.2. Environmental

precautions

Not available.

6.3. Methods and material for containment and cleaning up

Minimise dust generation and accumulation. Avoid the generation of dusts during clean-up. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other

sections

For personal protection, see section 8. For waste disposal, see section 13.

Material name: Calcium fluoride SDS FU

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Avoid breathing dust. Avoid prolonged exposure. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good

housekeeping.

Not available.

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

incompatibilities

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## Occupational exposure limits

Material	e (GwV), BGBl. II, no. 184/2 Type	Value	Form		
Calcium fluoride (CAS 7789-75-5)	MAK	2,5 mg/m3	Inhalable fraction.		
	STEL	12,5 mg/m3	Inhalable fraction.		
Belgium. Exposure Limit Values					
Material	Туре	Value			
Calcium fluoride (CAS 7789-75-5)	TWA	2,5 mg/m3			
Croatia. Dangerous Substance E 13/09	xposure Limit Values in the	Workplace (ELVs), Annexes	1 and 2, Narodne Novin		
Material	Туре	Value			
Calcium fluoride (CAS 7789-75-5)	MAC	2,5 mg/m3			
Czech Republic. OELs. Governm					
Material	Туре	Value			
Calcium fluoride (CAS 7789-75-5)	Ceiling	5 mg/m3			
	TWA	2,5 mg/m3			
Denmark. Exposure Limit Values		Value			
Material	Туре	Value			
Material  Calcium fluoride (CAS 7789-75-5)	TLV	2,5 mg/m3			
Calcium fluoride (CAS 7789-75-5) Estonia. OELs. Occupational Exp	TLV	2,5 mg/m3	ation No. 293 of 18		
Calcium fluoride (CAS 7789-75-5)	TLV	2,5 mg/m3	ation No. 293 of 18		
Calcium fluoride (CAS 7789-75-5) Estonia. OELs. Occupational Exp September 2001)	TLV cosure Limits of Hazardous S	2,5 mg/m3 Substances. (Annex of Regula	ation No. 293 of 18		
Calcium fluoride (CAS 7789-75-5) Estonia. OELs. Occupational Exp September 2001) Material Calcium fluoride (CAS	TLV  posure Limits of Hazardous S  Type  TWA	2,5 mg/m3 Substances. (Annex of Regula Value	ation No. 293 of 18		
Calcium fluoride (CAS 7789-75-5) Estonia. OELs. Occupational Exp September 2001) Material Calcium fluoride (CAS 7789-75-5)	TLV  posure Limits of Hazardous S  Type  TWA	2,5 mg/m3 Substances. (Annex of Regula Value	ation No. 293 of 18		
Calcium fluoride (CAS 7789-75-5) Estonia. OELs. Occupational Exp September 2001) Material Calcium fluoride (CAS 7789-75-5) Finland. Workplace Exposure Lii	TLV  posure Limits of Hazardous S  Type  TWA  mits	2,5 mg/m3  Substances. (Annex of Regulation  Value  2,5 mg/m3	ation No. 293 of 18		
Calcium fluoride (CAS 7789-75-5) Estonia. OELs. Occupational Exp September 2001) Material Calcium fluoride (CAS 7789-75-5) Finland. Workplace Exposure Lin Material Calcium fluoride (CAS	TLV  Posure Limits of Hazardous S  Type  TWA  mits  Type  TWA	2,5 mg/m3  Substances. (Annex of Regulation  Value  2,5 mg/m3  Value  2,5 mg/m3			
Calcium fluoride (CAS 7789-75-5)  Estonia. OELs. Occupational Exp September 2001)  Material  Calcium fluoride (CAS 7789-75-5)  Finland. Workplace Exposure Lin Material  Calcium fluoride (CAS 7789-75-5)  France. Threshold Limit Values (	TLV  Type  TWA  Type  TWA  TYPE  TWA  TWA  TWA  TWA  TWA  TWA	2,5 mg/m3  Substances. (Annex of Regula  Value  2,5 mg/m3  Value  2,5 mg/m3  osure to Chemicals in France			
Calcium fluoride (CAS 7789-75-5)  Estonia. OELs. Occupational Exp September 2001)  Material  Calcium fluoride (CAS 7789-75-5)  Finland. Workplace Exposure Lin Material  Calcium fluoride (CAS 7789-75-5)  France. Threshold Limit Values ( Material  Calcium fluoride (CAS	TLV  Posure Limits of Hazardous S  Type  TWA  TWA  TWA  TWA  TWA  TWA  TVPE  TWA  TYPE  VME  Chemical Safety of Workpla	2,5 mg/m3  Substances. (Annex of Regulation  Value  2,5 mg/m3  Value  2,5 mg/m3  osure to Chemicals in France Value  2,5 mg/m3			
Calcium fluoride (CAS 7789-75-5)  Estonia. OELs. Occupational Exp September 2001)  Material  Calcium fluoride (CAS 7789-75-5)  Finland. Workplace Exposure Lin Material  Calcium fluoride (CAS 7789-75-5)  France. Threshold Limit Values (Material  Calcium fluoride (CAS 7789-75-5)  Hungary. OELs. Joint Decree on	TLV  Posure Limits of Hazardous S  Type  TWA  Type  TWA  TWA  TWA  (VLEP) for Occupational Expenses  Type  VME	2,5 mg/m3  Substances. (Annex of Regular Value 2,5 mg/m3  Value 2,5 mg/m3  osure to Chemicals in France Value 2,5 mg/m3  ces			

Calcium fluoride (CAS		
7789-75-5)	TWA	0,6 mg/m3
Latvia. OELs. Occupational exp Material	posure limit values of chemica Type	l substances in work environment Value
Calcium fluoride (CAS 7789-75-5)	STEL	2,5 mg/m3
	TWA	0,5 mg/m3
Lithuania. OELs. Limit Values Material	for Chemical Substances, Gen- Type	eral Requirements Value
Calcium fluoride (CAS 7789-75-5)	TWA	2,5 mg/m3
Luxembourg. Binding Occupat Material	tional exposure limit values (A Type	nnex I), Memorial A Value
Calcium fluoride (CAS 7789-75-5)	TWA	2,5 mg/m3
•	osure Limit Values (L.N. 227.	of Occupational Health and Safety Authority Act (CA
Material	Туре	Value
Calcium fluoride (CAS 7789-75-5)	TWA	2,5 mg/m3
Netherlands. OELs (binding) Material	Туре	Value
Calcium fluoride (CAS 7789-75-5)	STEL	2 mg/m3
Norway. Administrative Norms	s for Contaminants in the Wor	- <del>-</del>
Material	Туре	Value
Calcium fluoride (CAS 7789-75-5)	TLV	0,5 mg/m3
Portugal. OELs. Decree-Law n. Material	. 290/2001 (Journal of the Rep Type	oublic - 1 Series A, n.266) Value
Calcium fluoride (CAS	TWA	2,5 mg/m3
7789-75-5) Portugal. VLEs. Norm on occup	pational exposure to chemical Type	agents (NP 1796) Value
7789-75-5)  Portugal. VLEs. Norm on occup  Material  Calcium fluoride (CAS		
7789-75-5) Portugal. VLEs. Norm on occup Material Calcium fluoride (CAS 7789-75-5) Romania. OELs. Protection of v	Type  TWA  workers from exposure to che	Value 2,5 mg/m3
7789-75-5) Portugal. VLEs. Norm on occup Material Calcium fluoride (CAS 7789-75-5) Romania. OELs. Protection of w Material Calcium fluoride (CAS	<b>Type</b> TWA	Value  2,5 mg/m3  mical agents at the workplace
7789-75-5) Portugal. VLEs. Norm on occup Material Calcium fluoride (CAS 7789-75-5) Romania. OELs. Protection of w Material Calcium fluoride (CAS	Type  TWA  workers from exposure to che Type	Value  2,5 mg/m3  mical agents at the workplace Value
7789-75-5) Portugal. VLEs. Norm on occup Material Calcium fluoride (CAS 7789-75-5) Romania. OELs. Protection of v Material Calcium fluoride (CAS 7789-75-5) Slovakia. OELs. Regulation No	Type  TWA  workers from exposure to che Type  STEL  TWA	Value  2,5 mg/m3  mical agents at the workplace Value  2 mg/m3
Portugal. VLEs. Norm on occup Material  Calcium fluoride (CAS 7789-75-5)  Romania. OELs. Protection of Material  Calcium fluoride (CAS 7789-75-5)  Slovakia. OELs. Regulation No Material  Calcium fluoride (CAS	Type  TWA  workers from exposure to che Type  STEL  TWA  3.300/2007 concerning protect	Value  2,5 mg/m3  mical agents at the workplace Value  2 mg/m3  1 mg/m3  tion of health in work with chemical agents
7789-75-5) Portugal. VLEs. Norm on occup Material Calcium fluoride (CAS 7789-75-5) Romania. OELs. Protection of v Material Calcium fluoride (CAS 7789-75-5)	Type  TWA  workers from exposure to cher Type  STEL  TWA  . 300/2007 concerning protect Type  TWA	Value  2,5 mg/m3  mical agents at the workplace Value  2 mg/m3  1 mg/m3  tion of health in work with chemical agents Value

# Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7) Material Type Value

Calcium fluoride (CAS TWA 2 mg/m3 7789-75-5)

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Material	e am Arbeitspiatz Type	Value	Form
Calcium fluoride (CAS 7789-75-5)	STEL	4 mg/m3	Inhalable dust.
	TWA	1 mg/m3	Inhalable dust.
UK. EH40 Workplace Exposur	e Limits (WELs)		
Material	Туре	Value	
Calcium fluoride (CAS 7789-75-5)	TWA	2,5 mg/m3	

# EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Material	Туре	Value	
Calcium fluoride (CAS 7789-75-5)	TWA	2,5 mg/m3	

#### **Biological limit values**

Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Material	Value	Determinant	Specimen	Sampling Time
Calcium fluoride (CAS 7789-75-5)	60 µmol/mmol	Fluoride	Creatinine in urine	*
	10 mg/g	Fluoride	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

## France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Material	Value	Determinant	Specimen	Sampling Time	
Calcium fluoride (CAS 7789-75-5)	3 mg/g	Fluorures	Creatinine in urine	*	
	10 mg/g	Fluorures	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

## **Germany. TRGS 903, BAT List (Biological Limit Values)**

Material	Value	Determinant	Specimen	Sampling Time
Calcium fluoride (CAS 7789-75-5)	7 mg/g	Fluorid	Creatinine in urine	*
	4 mg/g	Fluorid	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

## Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Material	Value	Determinant	Specimen	Sampling Time
Calcium fluoride (CAS 7789-75-5)	7 mg/g	fluoride	Creatinine in urine	*
	4 mg/g	fluoride	Creatinine in urine	*
	42 μmol/mmol	fluoride	Creatinine in urine	*
	24 μmol/mmol	fluoride	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Material	Value	Determinant	Specimen	Sampling Time
Calcium fluoride (CAS 7789-75-5)	7 mg/g	Fluorides	Creatinine in urine	*
	4 mg/g	Fluorides	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4						
Material	Value	Determinant	Specimen	Sampling Time		
Calcium fluoride (CAS 7789-75-5)	8 mg/l	Fluoruros	Urine	*		

<sup>\* -</sup> For sampling details, please see the source document.

Recommended monitoring

Follow standard monitoring procedures.

procedures

**Derived no effect levels** 

(DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

## 8.2. Exposure controls

## Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain

concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

#### Individual protection measures, such as personal protective equipment

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

- **Hand protection** Not normally needed. Wear appropriate chemical resistant gloves.

- **Other** Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

**Respiratory protection** Wear respirator with dust filter.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**Always observe good personal hygiene measures, such as washing after handling the material and

before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing

and protective equipment to remove contaminants.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance Powder.

Physical state Solid.

Form Powder.

Colour Not available.

Odour Not available.

Odour threshold Not available.

Powder.

Not available.

Not available.

Melting point/freezing point 1403 °C (2557,4 °F)

Material name: Calcium fluoride Sps Fu

Initial boiling point and

boiling range

2500 °C (4532 °F)

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit -

Not available.

Not available.

upper (%)

**Vapour pressure** < 0,0000001 kPa at 25 °C

Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

9.2. Other information

**Density** 3,18 g/cm3 estimated

Molecular formulaCa-F2Molecular weight78,07 g/molSpecific gravity3,18

## **SECTION 10: Stability and reactivity**

**10.1. Reactivity** Not available.

**10.2. Chemical stability** Material is stable under normal conditions.

**10.3. Possibility of hazardous** No dangerous reaction known under conditions of normal use.

reactions

**10.4. Conditions to avoid**Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

10.5. Incompatible materials None known.

**10.6. Hazardous** No hazardous decomposition products are known.

decomposition products

## **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

**Inhalation** Dust may irritate respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Dust or powder may irritate the skin. Due to lack of data the classification is not possible.

**Eye contact** Dust in the eyes will cause irritation.

**Ingestion** Based on available data, the classification criteria are not met.

**Symptoms** Dusts may irritate the respiratory tract, skin and eyes.

#### 11.1. Information on toxicological effects

**Acute toxicity** 

Product Species Test Results

Calcium fluoride (CAS 7789-75-5)

Acute

Oral

LD50 Rat 4250 mg/kg

Material name: Calcium fluoride

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation.

Respiratory sensitisationDue to partial or complete lack of data the classification is not possible.Skin sensitisationDue to partial or complete lack of data the classification is not possible.Germ cell mutagenicityDue to partial or complete lack of data the classification is not possible.CarcinogenicityDue to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

Calcium fluoride (CAS 7789-75-5) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity**Due to partial or complete lack of data the classification is not possible. **Specific target organ toxicity**Due to partial or complete lack of data the classification is not possible.

- single exposure

Specific target organ toxicity

- repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard**Due to partial or complete lack of data the classification is not possible.

**Mixture versus substance** 

information

No information available.

**Other information** This product has no known adverse effect on human health.

**SECTION 12: Ecological information** 

**12.1. Toxicity** Due to partial or complete lack of data the classification for hazardous to the aquatic environment,

is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

**12.3. Bioaccumulative** No data available.

potential

Partition coefficient

Not available.

n-octanol/water (log Kow)Bioconcentration factor (BCF) Not available.

**12.4. Mobility in soil**No data available.

12.5. Results of PBT and

vPvB assessment

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

12.7. Additional information

Estonia Dangerous substances in soil Data

Calcium fluoride (CAS 7789-75-5) Fluoride (As F ion) 1200 mg/kg Fluoride (As F ion) 2000 mg/kg

Fluoride (As F ion) 450 mg/kg

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code** Not available.

**Disposal**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

methods/information

**Special precautions** Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information** 

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

Material name: Calcium fluoride

SDS EU

SDS E

#### **ADN**

14.1. - 14.6.: Not regulated as dangerous goods.

#### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

#### **IMDG**

14.1. - 14.6.: Not regulated as dangerous goods.

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Calcium fluoride (CAS 7789-75-5)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

## Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC)

No 1907/2006, as amended.

**National regulations** Follow national regulation for work with chemical agents.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

#### List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

Material name: Calcium fluoride

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC: Intermediate Bulk Container.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative, toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

Not available.

The classification for health and environmental hazards is derived by a combination of calculatior methods and test data, if available. Not applicable.

Follow training instructions when handling this material.

Materion Advanced Chemicals Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This document has been prepared using data from sources considered to be technically reliable and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws, statutes and regulations.

## References

Information on evaluation method leading to the classification of mixture

**Training information** 

**Disclaimer**